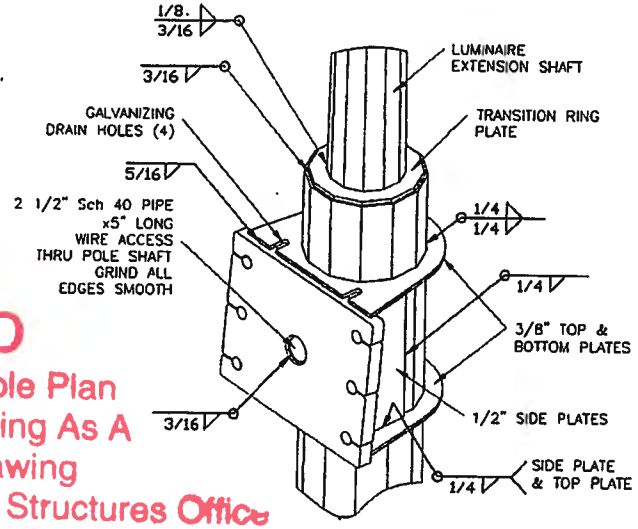
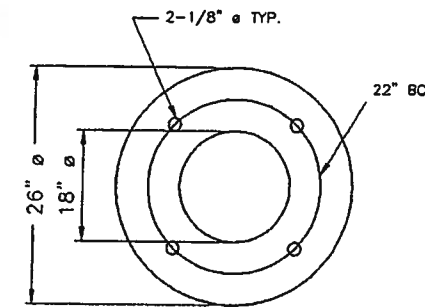


INSTALL 1/2" NC
ASTM A325 HEX HEAD BOLT
7 1/4" LONG WITH 2 FLAT WASHER,
1 LOCK WASHER, & NUT (GALV.).
DRILL 9/16" HOLE IN DAVIT
SECTION. POLE HOLE TO BE
DRILLED IN FIELD.

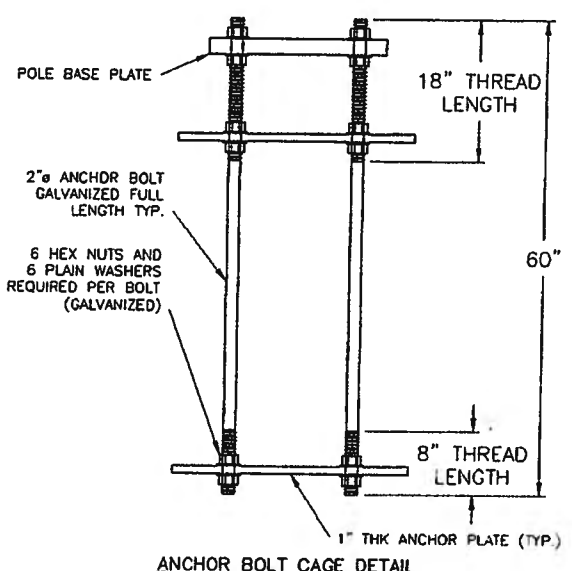
SLIP JOINT DETAIL
AASHTO FATIGUE CATEGORY B



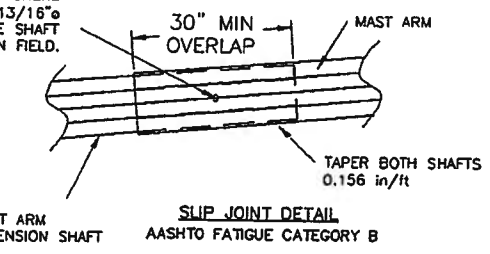
MAST HEAD DETAIL



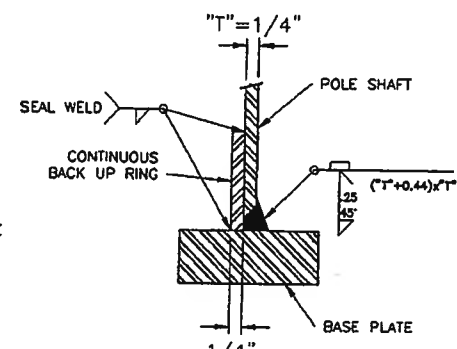
APS-H-09 BASE PLATE
(1" PLATE)



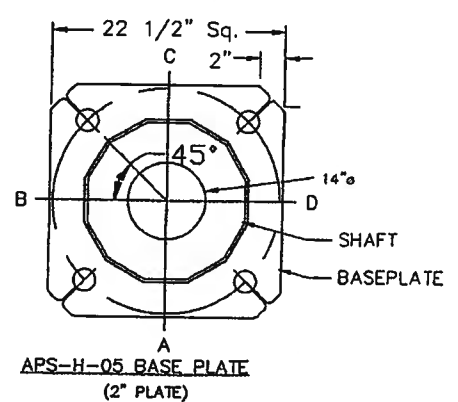
ANCHOR BOLT CAGE DETAIL



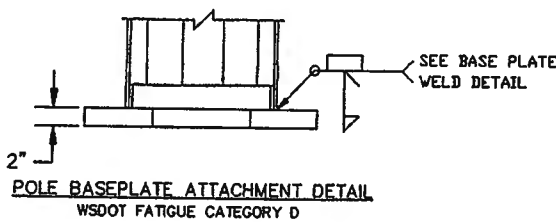
SLIP JOINT DETAIL
AASHTO FATIGUE CATEGORY B



BASE PLATE WELD DETAIL
WSDOT FATIGUE CATEGORY D



APS-H-05 BASE PLATE
(2" PLATE)



POLE BASEPLATE ATTACHMENT DETAIL
WSDOT FATIGUE CATEGORY D

APPROVED
Manufacturer's Pole Plan
Approved For Listing As A
Pre-Approved Drawing
WSDOT Bridge & Structures Office
By GB Date 6-20-2011

A MAIN SHAFT (1)			
AFB(3)	AFT(4)	THK	LENGTH
18"	15"	1/4"	22'-3" MAX

B MAST ARM SHAFT (1)			
AFB(3)	AFT(4)	THK	LENGTH
11 5/16"	5"	3/16"	40'

TOTAL MAST ARM LENGTH "B"	C MAST ARM EXTENSION SHAFT (1)				CONNECTING BOLTS (6 SETS)		SIGN & SIGNAL MAX. (2) LOADING XYZ
	AFB(3)	AFT(4)	THK	LENGTH	DIA.	LENGTH	
50'	12 3/8"	10 1/4"	1/4"	12' 6"	1 1/2"	6"	1775.7
55'	13 3/16"	10 1/4"	1/4"	17' 6"	1 1/2"	6"	1988.7
60'	13 15/16"	10 1/4"	1/4"	22' 6"	1 1/2"	6"	2690.8
65'	14 3/4"	10 1/4"	1/4"	27' 6"	1 1/2"	6"	2974.8

D LUMIN EXT SHAFT (1)			
LUMIN. MOUNT HT. "A2"	AFB(3)	AFT(4)	SHAFT LENGTH
30'	5 5/16"	5 1/2"	1' 5"
35'	5 15/16"	5 1/2"	3'-3"
40'	6 5/8"	5 1/2"	8'-3"
45'	7 5/16"	5 1/2"	13'-3"
50'	8"	5 1/2"	18'-3"

E LUMIN ARM SHAFT (1)			
LUMIN. ARM REACH "C"	AFB(3)	AFT(4)	SHAFT LENGTH
6'	6-1/4"	4 1/16"	13'-11"
8'	6-1/4"	3 13/16"	15'-9"
10'	6-1/4"	3 9/16"	17'-7"
12'	6-1/4"	3 5/16"	19'-5"
14'	6-1/4"	3 1/4"	21'-3"
16'	6-1/4"	3 1/4"	23'-10"

DESIGN: ALL STANDARDS ARE DESIGNED TO THE 2009 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
DESIGN WIND SPEED - 90 MPH (3 SECOND GUST WIND SPEED)
DESIGN LIFE / RECURRENCE INTERVAL - 50 YEARS
FATIGUE CATEGORY - III (GALLOPING, NATURAL & TRUCK GUSTS)
MAXIMUM TRUCK GUST WIND SPEED - 65 MPH
EACH STRUCTURE HAS A LOAD CAPACITY AS SHOWN IN THE ABOVE CHART. DESIGN AREAS OF SIGNS AS SIGNALS AS FOLLOWS:
TRAFFIC SIGNAL
FACE AREA = 9.2 FT.²
WIND DRAG COEFFICIENT = 1.2
WEIGHT = 60 LB.
ICE AREA = 23 FT.²
TRAFFIC SIGN
FACE AREA = 5.0 FT.²
WIND DRAG COEFFICIENT = 1.12
WEIGHT = 60 LB.
ICE AREA = 5.0 FT.²

WELDING: WELDING OF STRUCTURES SHALL BE IN ACCORDANCE WITH THE CURRENT AASHTO SPECIFICATIONS FOR STRUCTURAL SUPPORTS OF HIGHWAY SIGNS, LUMINAIRES & TRAFFIC SIGNALS.
LONGITUDINAL SEAM WELD IS 80% MINIMUM PENETRATION EXCEPT - 6 INCHES FROM END OF SECTIONS IT IS 100% PENETRATION.
ON THE FEMALE SECTION OF TELESCOPIC FIELD SPLICES IT IS 100% PENETRATION FOR MINIMUM SPLICE LENGTH PLUS 6 INCHES

FINISH: ALL COMPONENTS TO BE HOT DIP GALVANIZED AS PER ASTM A123 / A153

MATERIAL DATA (UNLESS OTHERWISE NOTED)	
COMPONENT	GRADE
ALL TAPERED TUBES	ASTM A572 Gr. 50 OR A1011 GR.50
BASE PLATE	ASTM A36
FLANGE PLATES	ASTM A36
PIPE TENONS	ASTM A53 Gr. B
CONNECTING BOLTS	ASTM A325 - Type 1
NUTS	ASTM A563-DH
FLAT WASHERS	ASTM F436
ANCHOR PLATE	ASTM A36
ANCHOR BOLTS	ASTM F1554 GR.105

P&I No.		CUSTOMER		LOCATION	
10	CHANGED VELD SEAM NOTES	ECH	06-11	APS LLC American Pole Structures LLC TITLE: WSDOT TYPE III TRAFFIC STRUCTURE 65' MAX. MAST ARM LENGTH "J" STYLE LUMINAIRE ARM	
9	UPDATES PER G. BEZ 04-10-10	DRK	04-10		
8	UPDATES PER G. BEZ	DRK	04-09		
7	UPDATES PER G. BEZ	DRK	03-09		
6	UPDATES PER G. BEZ	DRK	07-08		
5	UPDATES PER G. BEZ	DRK	06-08		
REVISED	CHANGE	BY	APP.	DATE	
DRAWN BY	S.B.	APP. BY	DRG. No.	REV. No.	SH. 1
DATE	10-AUG-02	SCALE	N.T.S.	WS-T3J-H	10 2 SH. 2